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Disposing human waste contg. water not requiring defoamers - by adding calcium and magnesium ions, sepg. solid and liq., removing nitrogen form liq. etc.

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 4004098	A	19920108				199208 B
JP 95029117	B2	19950405	JP 90100276	A	19900418	199518

Priority Applications (No Type Date): JP 90100276 A 19900418

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 95029117	B2		9	C02F-009/00	Based on patent JP 4004098

Abstract (Basic): JP 4004098 A

Ca²⁺ or Mg²⁺ ions are added to the water contg. human waste; the water is sepd. into solid and liq.; the liq. is biologically treated with activated sludge to remove parts of the nitrogen content. The activated sludge is sepd. into water and sludge; the nitrogen content remaining in the water are removed with the help of nitrification and denitrification bacteria which are fixed in a bed.

The vol. (V) of the tank where the liq. is biologically treated is so designed that the relation of V is not more than 4Q is satisfied (Q is the amt. of the water disposed per day).

USE/ADVANTAGE - Used to dispose water contg. human waste. The size of the denitrification tank can be reduced to 1/10. Defoamers or defoaming chemical are not required. The amt. of inorganic flocculant which is used to reduce COD and colour can be reduced to 1/3.

Dwg.0/2

Derwent Class: D15

International Patent Class (Main): C02F-009/00

International Patent Class (Additional): C02F-001/52; C02F-003/06; C02F-003/34